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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/628,127 07/25/2003		Paul M. Hagelin	9875-0008-999	3095			
24341	7590	06/14/2004		EXAM	EXAMINER		
,		& BOCKIUS, LI	PHAN,	PHAN, JAMES			
3300 HILLVIEW AVENUE PALO ALTO, CA 94304 ART UNIT				PAPER NUMBER			

2872 DATE MAILED: 06/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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P.	"	v	٠.

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		Application	ı No.	Applicant(s)				
		10/628,127	,	HAGELIN ET AL.				
	Office Action Summary	Examiner		Art Unit				
		James Pha	ın	2872				
 Period for	The MAILING DATE of this communicate Reply	ion appears on the	cover sheet with the c	orrespondence ad	dress			
THE MA - Extension after SI - If the per - If NO per - Failure - Any rep	RTENED STATUTORY PERIOD FOR ALLING DATE OF THIS COMMUNICATION on softime may be available under the provisions of 37 K (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) day ariod for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, I by received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. ' CFR 1.136(a). In no even ation. ys, a reply within the statut y period will apply and will by statute, cause the applic	t, however, may a reply be tim ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	ely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).	y. ommunication.			
Status								
1)□ R	esponsive to communication(s) filed o	n						
2a)∐ T	his action is FINAL . 2b)	☑ This action is no	n-final.					
•	ince this application is in condition for				e merits is			
С	losed in accordance with the practice ι	ınder <i>Ex parte Qua</i>	yle, 1935 C.D. 11, 45	33 O.G. 213.				
Dispositio	n of Claims							
4) 🛛 C	Claim(s) <u>18</u> is/are pending in the application.							
48	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□ C	Claim(s) is/are allowed.							
6)⊠ C	laim(s) <u>18</u> is/are rejected.							
•	claim(s) is/are objected to.							
8) 🗌 C	claim(s) are subject to restriction	and/or election re	quirement.					
Applicatio	n Papers							
9) 🔲 TI	ne specification is objected to by the Ex	xaminer.						
	ne drawing(s) filed on <u>25 July 2003</u> is/a				•			
	pplicant may not request that any objection							
	replacement drawing sheet(s) including the							
11)□ T	he oath or declaration is objected to by	the Examiner. Not	te the attached Office	Action or form P	ГО-152.			
Priority un	der 35 U.S.C. § 119							
a)	cknowledgment is made of a claim for All b) Some * c) None of: Certified copies of the priority doc Certified copies of the priority doc Copies of the certified copies of the application from the International te the attached detailed Office action for	cuments have beer cuments have beer he priority docume Bureau (PCT Rule	n received. n received in Applicati nts have been receive nt.2(a)).	on No ed in this National	Stage			
Attachment(5)							
	of References Cited (PTO-892)	2.42	4) Interview Summary Paper No(s)/Mail D					
3) 🛛 Informa	of Draftsperson's Patent Drawing Review (PTO- ation Disclosure Statement(s) (PTO-1449 or PTC No(s)/Mail Date <u>6/9/04</u> .			Patent Application (PT	O-152)			

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DETAILED ACTION

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Information Disclosure Statement

The information disclosure statement (IDS) submitted on 7/25/03 has been

considered by the examiner.

Additional Prior Art Cited

Dickensheets et al discloses a micromechanical scanning device.

Claim Rejections - 35 USC § 112

Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

Claim 18 is narrative in form and indefinite in that there is no optical

interconnection between the first micromechanical convex mirror and the second

micromechanical concave mirror listed in the claim. The structure must be organized

and correlated in such a manner as to present a complete operative device.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Dickensheets et al.

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Dickensheets et al discloses a micromechanical scanning device having a first micromechanical mirror (17) having a first radius of curvature value (infinity); a first micromechanical drive mechanism (including conductive regions 31 and 32, and conductive film on the surface of the mirror 17); a second micromechanical mirror (18) having a second radius of curvature value (infinity); and a second micromechanical drive mechanism (including conductive regions 33 and 34, and conductive film on the surface of the mirror 18). See Figs. 2 and 3, and column 3, lines 59-62.

The difference between the claimed invention and the applied prior art is that while the first mirror and the second mirror in the claimed invention are convex and concave, respectively, the mirrors in the applied prior art are flat.

Because the claim does not particularly specify the radius of curvature values of the convex and concave mirrors, it is the examiner position that the absolute radius of curvature values of the convex and concave mirrors are equal; and because the absolute radius of curvature values of the convex and concave mirrors are equal, the optical power of the combined convex mirror and concave mirror is zero which is the same as the optical power of the combined mirrors (17 and 18) of the applied prior art. Therefore, the use of the combination of the convex and the concave mirrors of the same absolute radius of curvature value instead of flat mirrors is considered an alternative to provide a zero optical power. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the flat mirrors in the applied prior art with a convex and concave mirrors of the same absolute radius of

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curvature value as an alternative for the common feature, i.e. obtaining a zero optical power.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Phan whose telephone number is (571) 272-2317. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phan, J. June 9, 2004

> James Phan Primary Examinar